TARGET AUDIENCE: Engineering Flight

A-GRAM

AIR FORCE CIVIL ENGINEER SUPPORT AGENCY

99-30 **JUNE 1999**

QUALIFICATION TRAINING PACKAGE – REVETMENTS

SYNOPSIS:

A Qualification Training Package (QTP) on Revetments has just been completed. This is a computer-based CD-ROM training program that provides information on the construction and maintenance of several different types of revetments. In addition to providing detailed information, the program includes several illustrative video clips and interactive activities. The activities allow the student to practice constructing some of the revetments, making the learning process even more meaningful. Review questions are provided at the end of each lesson to enforce the learning process.

DETAILS:

Conflicts continue to occur throughout the world that the United States Air Force must support. During these times, revetments are often built to protect troops and assets from conventional weaponry. They are commonly made of sandbags or some type of soil-filled bins. Some engineers may be familiar with the old ARMCO bolted bins used during the Vietnam War or their lighter replacement, the A-1 and B-1 revetments. These bin-type revet-ments are pieced together using side panels and cross-panels and are then backfilled with soil.

The latest type of revetment engineers may have been introduced to is the concertainer revetment. Like the B-1 revetment, it is also a bin-type revetment. The concertainer revet-ment is made of a series of wire-framed bin sections that can be connected to create long lengths of wall. They can also be stacked for added height. The wire is formed into three-inch squares and connected to form bin sections. Each section is lined with a sturdy, fireproof geofabric to contain even the finest of fills. To extend performance, the liner is also rot and ultraviolet radiation resistant.

If these prepackaged revetments have yet to arrive, another option would be to simply berm soil around assets that need to be protected. The program discusses the thickness and slope requirements for the best protection against the expected threat type.

All these revetment types, and more, are described and their construction detailed in this software package. Upon completing the QTP, the student should be familiar with the different types of revetments and their construction.

ACCESSIBILITY:

Additional copies of this and other contingency Qualification Training Packages can be requested from HQ AFCESA/CEOT at the address below, or at DSN 523-6181, FAX 523-6488.

Questions regarding this QTP should be directed to SMSgt Randall Skinner or Mr. Ralph Gruber.

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